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PTO/SB/05 (4/98)

A

UTILITY PATENT APPLICATION TRANSMITTAL

Only for nonprovisional applications under 37 CFR § 1.53(b)

Attorney Docket No.	249768045US
First Inventor or Application Identifier	Andrej Gregov
Title	USER-DIRECTED PRODUCT RECOMMENDATIONS
Express Mail Label No.	EL404935367US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

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1.	<input type="checkbox"/>	Authorization for Extensions & Fee Transmittal (Submit an original and a duplicate for fee processing)
2.	<input checked="" type="checkbox"/>	Specification [Total Pages] 17 (preferred arrangement set forth below) <ul style="list-style-type: none">- Descriptive Title of the Invention- Cross References to Related Applications- Statement Regarding Fed sponsored R & D- Reference to Microfiche Appendix- Background of the Invention- Brief Summary of the Invention- Brief Description of the Drawings (if filed)- Detailed Description- Claim(s)- Abstract of the Disclosure
3.	<input checked="" type="checkbox"/>	Drawing(s) (35 USC 113) [Total Sheets] 8
4.		Oath or Declaration [Total Pages] <ul style="list-style-type: none">a. <input type="checkbox"/> Newly executed (original or copy)b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 16 completed)<ul style="list-style-type: none">i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)

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8.	<input type="checkbox"/>	37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney (when there is an assignee)
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For CONTINUATION or DIVISIONAL apps only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

☐ Claims the benefit of Provisional Application No. _____

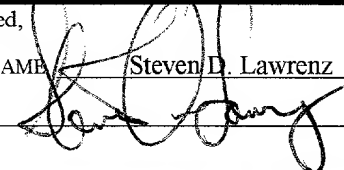
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Respectfully submitted,

TYPED or PRINTED NAME Steven D. Lawrenz

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REGISTRATION NO. 37,376

Date 8-25-00

USER-DIRECTED PRODUCT RECOMMENDATIONS

TECHNICAL FIELD

The present invention is directed to the field of electronic marketing, and, more particularly, to the field of product recommendations.

BACKGROUND

The World Wide Web ("the Web") is a system for publishing information, in which users may use a web browser application to retrieve information, such as web pages, from web servers and display it. Search engines, subject indices, and links between web pages and web sites facilitate the exploration of information published on the Web.

The Web has increasingly become a medium used to shop for products. Indeed, thousands and thousands of different products may be purchased on the Web. A user who plans to purchase a product on the Web can visit the Web site of a Web merchant that sells the product, view information about the product, give an instruction to purchase the product, and provide information needed to complete the purchase, such as payment and shipping information.

Some web merchants provide services for recommending products to users based on profiles that have been developed for such users. A user's profile is commonly based upon a list of products already purchased by the user, or upon the user's responses to a survey about his or her interests.

By recommending additional products to a user in this manner, a web merchant can often sell a recommended product to a user that would not have otherwise purchased it, thereby generating additional sales and profits for the web merchant. Further, such recommendation services often have utility to the user, identifying items that would be useful to the user and of which the user was previously unaware.

While conventional recommendation systems can produce significant benefits, they also have substantial shortcomings. In general, the list of items recommended by a particular recommendation service is fairly static, requiring the user to purchase a number of new items or repeat the survey to update his or her profile and obtain new recommendations. Further, because such recommendation systems require users to use one of these methods to modify the contents of their profile in order to change a set of recommendations, they are relatively inflexible and do not provide a high level of user control. Further, because they are based upon the user's profile, they are not particularly useful either to recommend gifts for others having different interests, or to recommend items to a user that are in a new area of interest to the user that is not reflected in the user's profile.

In view of these disadvantages of conventional recommendation systems, a more flexible recommendation system that afforded a high level of user control would have significant utility.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a high-level block diagram showing the environment in which the facility preferably operates.

Figures 2A-2B are a flow diagram showing the steps preferably performed by the facility.

Figure 3 is a display diagram showing an initial display.

Figure 4 is a display diagram showing sample search results.

Figure 5 is a display diagram showing a list of recommendations based upon the sample search.

Figure 6 is a display diagram showing a sample set of recommendations displayed by the facility based upon a user-specified seed item.

Figure 7 is a display diagram showing the display of a revised set of recommended items based upon an expanded list of user-selected seed items.

DETAILED DESCRIPTION

Preferred embodiments of the invention provide a software facility for generating custom, user-directed product recommendations ("the facility"). The facility provides a user interface that enables a user to assemble a list of seed items. For example, the user can add products available for purchase from a web merchant to the list of seed items. Each time the user changes the list of seed items by adding or removing an item, the facility submits the list of seed items to a recommendation engine, and displays the resulting list of recommended items. For example, in order to generate recommendations about books relating to basic digital photography, the user may select as seed items two such books. Because the resulting recommendations are not predicated on a user profile maintained on the user, the facility enables such recommendations to be specifically targeted to items of a particular type, without being diluted by other interests or purchases of the user.

In one embodiment, a key word search is used to generate an initial set of recommendations, from which the user may select seed items. In this embodiment, the user specifies a search string, and the facility performs a key word search on the search string, then submits the top items in the key word search results to the recommendation engine. Additionally, various other flexible techniques are supported for locating and adding seed items.

In this way, the facility provides a convenient and powerful tool for users to generate directed product recommendations not hampered by extraneous user profile information. Embodiments of the facility are particularly useful to generate recommendations for a gift to be given to another by a user.

Figure 1 is a high-level block diagram showing the environment in which the facility preferably operates. The block diagram shows several client computer systems, such as client computer systems 110, 120, and 130. Each of the client computer systems has a web client computer program for browsing the World Wide Web, such as web clients 111, 121, and 131. The client computer systems are connected via the Internet 140 to a server computer system 150 hosting the facility. Those skilled in the art

will recognize that client computer systems could be connected to the server computer system by networks other than the Internet, however.

The server computer system 150 contains a memory 160. The memory 160 preferably contains merchant software 161 incorporating both the facility 162 and a recommendation engine 163 preferably used by the facility. The recommendation engine preferably receives a list of "seed items," such as items sold by the web merchant, and returns a ranked list of items to recommend to a user who is interested in the seed items. In one embodiment, the recommendation engine is as described in U.S. Patent Application No. 09/157,198, which is hereby incorporated by reference in its entirety.

The memory preferably further contains a web server computer program 164 for delivering web pages in response to requests from web clients. While items 161-164 are preferably stored in memory while being used, those skilled in the art will appreciate that these items, or portions of them, maybe be transferred between memory and a persistent storage device 172 for purposes of memory management and data integrity. The server computer system further contains one or more central processing units (CPU) 171 for executing programs, such as programs 161-164, and a computer-readable medium drive 173 for reading information or installing programs such as the facility from computer-readable media, such as a floppy disk, a CD-ROM, or a DVD.

While preferred embodiments are described in terms in the environment described above, those skilled in the art will appreciate that the facility may be implemented in a variety of other environments including a single, monolithic computer system, as well as various other combinations of computer systems or similar devices connected in various ways. In particular, the facility may interact with users via a wide range of portable and/or wireless user interface devices, such as cellular telephones, pagers, personal digital assistants, etc.

Figures 2A-2B are a flow diagram showing the steps preferably performed by the facility. In step 201, the facility receives a search string from the user. In step 202, the facility performs a query of the items available for sale from the merchant using the search string received in step 201. In step 203, the facility selects the top items returned by the query performed in step 202. In one embodiment, step 203 is performed

in accordance with the top item selection process described in U.S. Patent Application No. 08/928,555, which is hereby incorporated by reference in its entirety.

In step 204, the facility submits the item selected in step 203 to the recommendation engine as recommendation seeds. In step 205, the facility displays a list of candidate items comprising the items selected in step 203 and the items returned by the recommendation engine. In step 206, the facility initializes a list of user-selected seed items to be empty. In step 207, the facility receives user input adding an item displayed in the list of candidate items to the list of user-selected seed items initialized in step 206. In step 208, the facility adds to the list of user-selected seed items the item that was the subject of the user input received in step 207. After step 208, the facility continues in step 209 via connector A.

In step 209, the facility submits the list of user-selected seed items to the recommendation engine as recommended action seeds. In step 210, the facility displays a list of candidate items comprising only the items returned by the recommendation engine. In step 211, the facility receives further user input regarding the list of user-selected seed items. In step 212, the facility branches on the nature of the user input received in step 211. If the user input received in step 211 is to add an item to the user-selected seed items list, then the facility continues in step 213, else if the user input received in step 211 is to remove an item from the list of user-selected seed items, then the facility continues in step 214. In step 213, the facility adds the indicated item to the list of user-specified seed items. After step 213, the facility continues in step 209 to submit the augmented list of user-selected seed items to the recommendation engine. In step 214, the facility removes the indicated item from the list of user-specified seed items. After step 214, the facility continues in step 209 to submit the reduced list of user-selected seed items to the recommendation engine.

Those skilled in the art will appreciate that various subsets of the steps shown in Figure 2 may be performed by the facility. For example, the facility may perform steps 201-205 without performing the remainder of the steps. Alternatively, the facility could use any set of steps to generate a list of user-selected seed items, then perform steps 209-214 to display recommendations based upon that list of seed items and permit the user to refine the list of seed items.

To more fully illustrate its implementation and operation, the facility is described in conjunction with an example.

Figures 3-7 are display diagrams showing sample displays produced an exemplary embodiment of the facility. These displays may be served from a web server and displayed in a web browser, or conveyed to the user in a variety of other ways.

Figure 3 is a display diagram showing an initial display. The initial display includes search controls 301-303. The user uses the search controls by typing into the search string field 302 one or more words relating to items in which the user is interested. For example, the diagram shows that the user has typed the search string "digital photography" into the search string field. After doing so, the user clicks on the search button 303. Optionally, the user may use item category listbox 301 to select an item category to which to restrict the recommendations. If the user fails to do so, the facility preferably performs a search of all item types.

Figure 4 is a display diagram showing sample search results. It can be seen that the search has produced a number of items, including book items 411-413, that are the most relevant to the search string inputted as shown in Figure 3. The search results are preferably accompanied by a recommendations button 420. The user preferably clicks the recommendations button in order to obtain recommendations that are based upon the top three items in the search result.

Figure 5 is a display diagram showing a list of recommendations based upon the sample search. The diagram shows six recommended items 510, 520, 530, 540, 550, and 560. Items 510, 540, and 520 are the top three items returned in the search result, shown as items 411, 413 and Figure 4. Items 530, 550, and 560 are among the items returned by the recommendation engine when seeded with the top three items from the search. Thus, the recommended items shown in Figure 5 are a combination of the top items returned by the search and recommendations based upon these top items.

Figure 5 further shows a button for each recommended item, labeled "more like this" that the user may click in order to base a new set of recommendations on the item. For example, the user may click button 551 in order to base a new set of recommendations on item 550, a book entitled "The Art of Digital Photography."

Figure 6 is a display diagram showing a sample set of recommendations displayed by the facility based upon a user-specified seed item. Figure 6 is preferably displayed in response to the user clicking on button 551 shown in Figure 5. It can be seen that Figure 6 contains a list 690 of user-specified seed items. In Figure 6, this list of seed items contains only one seed item, item 691 corresponding to item 550 shown in Figure 5. Figure 6 also shows a list of recommended items 610, 620, 630, 640, and 650. These recommended items are based upon using item 691 alone as a seed for the recommendation engine. At this point, the user may add additional seed items to the list of user-specified seed items by clicking a "more like this" button associated with a new seed item. For example, the user may click button 631 in order to add item 630 to the list of user-specified seed items.

Figure 7 is a display diagram showing the display of a revised set of recommended items based upon an expanded list of user-selected seed items. The display shown in Figure 7 is preferably generated in response to the user clicking on button 631 shown in Figure 6. As a result, the facility has added seed item 793 to the list 790 of the user-selected seed items. The list of recommended items 710, 720, 730, 740, and 750 is correspondingly revised to include items recommended based upon these two seed items. At this point, the user may further expand the list of user-selected seed items by clicking one of the "more like this" buttons, such as button 711. The user may also remove seed items from the list of user-selected seed items by unchecking one or more of the check boxes 792 and 794, then clicking update button 795. For example, to remove item 793 from the list of user-selected seed item 790 and return to the display of Figure 6, the user could uncheck check box 794 for item 793, then click the update button 795.

Various other embodiments of the facility may produce a sequence of events other than those depicted in Figures 3-7. For example, one embodiment of the invention produces only the sequence of events shown in Figures 3-5, enabling the user to display further information about or purchase one or more of the recommended items shown in Figure 5. In other embodiments of the facility, various other techniques are used to generate the list of user-selected seed items shown in Figures 6 and 7. In some embodiments, this list is generated without performing a key word search as shown in Figures 3 and 4. As some examples, embodiments of the facility may enable a user to

add seed items to the list of user-selected seed item by displaying buttons similar to the "more like this" buttons shown in Figures 5-7 in conjunction with various displays of items and item categories, such as on item detail pages, user purchase history lists, editorial content discussing items and item categories, etc. In additional embodiments, the user may drag items from various other portions of the display into the list of user-selected seed items, or out of this list. In this manner, the user may flexibly assemble the list of seed items used by the facility to generate a list of recommended items.

It will be understood by those skilled in the art that the above-described facility could be adapted or extended in various ways. For example, the facility can be straightforwardly adapted to support a wide variety of user interface techniques for modifying the list of user-specified seed items. Also, the facility may be operated either by a web merchant, by a third party recommendation service, or by companies engaged in other businesses. Further, while the facility is described above as interacting with users in real-time via the Web, additional embodiments of the facility interact with users via other types of communication and messaging schemes, including electronic mail messaging, instant messaging, and pager messaging. While the foregoing description makes reference to preferred embodiments, the scope of the invention is defined solely by the claims that follow and the elements recited therein.

CLAIMS

We claim:

1 1. A method in a computing system for generating a set of recommended
2 items, comprising:

3 (a) receiving user input specifying a search string;
4 (b) performing a query of items matching the search string;
5 (c) identifying among the items matching the search string a subset of most
6 relevant items;

7 (e) submitting the items identified in (c) to a recommendation engine;

8 (f) receiving from the recommendation engine a set of recommended items
9 based upon the items submitted in (e); and

10 (g) displaying a list of recommended items comprising the items received
11 from the recommendation engine in (e) and the items identified in (c).

1 2. The method of claim 1 wherein each item is a product available for
2 purchase from a web merchant.

1 3. The method of claim 1, further comprising:

2 (h) receiving user input selecting one or more of the items displayed in (g);

3 (i) submitting the items selected in (h) to the recommendation engine;

4 (j) receiving from the recommendation engine a set of recommended items
5 based upon the items submitted in (i); and

6 (k) displaying a list of recommended items comprising the items received
7 from the recommendation engine in (j).

1 4. The method of claim 3, further comprising:

2 (l) receiving user input modifying the set of items selected in (h);

- 3 (m) submitting the modified set items to the recommendation engine;
4 (n) receiving from the recommendation engine a set of recommended items
5 based upon the items submitted in (m); and
6 (o) displaying a list of recommended items comprising the items received
7 from the recommendation engine in (n).

1 5. A method in a computing system for producing item recommendations,
2 comprising:
3 receiving a recommendation input string;
4 performing a word search against the received input string to produce a word
5 search result containing items; and
6 using items among the items contained by the word search result as seeds to
7 generate a list of recommended items.

1 6. The method of claim 5, further comprising displaying the generated list
2 of recommended items.

1 7. The method of claim 5, further comprising:
2 receiving user input modifying the list of seed items; and
3 using the modified list of seed items to generate a second list of recommended
4 items.

1 8. The method of claim 5 wherein the received user input modifying the
2 list of seed items adds an item among the list of recommended items to the list of seed items.

1 9. The method of claim 5, further comprising e-mailing the generated list
2 of recommended items to the user.

1 10. The method of claim 9, further comprising receiving a response from the
2 user selecting one of the recommended items for purchase.

1 11. The method of claim 10 wherein the received response is an e-mail
2 reply.

1 12. The method of claim 10 wherein the received response is an HTTP
2 request.

1 13. A computer-readable medium whose contents cause a computing system
2 to produce item recommendations by:

3 receiving a recommendation input string;

4 performing a keyword search against the received input string to produce a
5 search result containing items; and

6 using items among the items contained by the search result as seeds to generate
7 a list of recommended items.

1 14. A method in a computing system for generating item recommendations,
2 comprising:

3 displaying a plurality of item indications each indicating an item;

4 receiving user input selecting one or more of the displayed item indications;

5 selecting as seed items the items indicated by the selected item indications;

6 generating a list of recommended items using the selected seed items; and

7 displaying the generated list of recommended items.

1 15. The method of claim 14 wherein the item indications are selected by a
2 distinguished user having a user profile containing item ratings each for a rated item, and
3 wherein none of the set of seed items is a rated item having a rating in the user profile.

1 16. The method of claim 14 wherein the item indications are selected by a
2 distinguished user having a user profile identifying items purchased by the user, and wherein
3 none of the set of seed items is identified in the user profile as an item purchased by the user.

1 17. The method of claim 14 wherein the displayed plurality of item
2 indications are contained in a first electronic mail message to a user, and wherein the user
3 input is contained in a response to the first electronic mail message from the user, and
4 wherein the generated list of recommended items is contained in a second electronic message
5 to the user.

1 18. A computing system for generating item recommendations, comprising:
2 a display that displays a plurality of item indications each indicating an item;
3 an input receiver that receives user input selecting one or more of the displayed
4 item indications;
5 a seed selection subsystem that selects as seed items the items indicated by the
6 selected item indications; and
7 a recommended item list generator that generates a list of recommended items
8 using the selected seed items that is displayed by the display.

1 19. One or more computer memories collectively containing a
2 recommendation seed data structure comprising one or more recommendation seed entries,
3 each recommendation seed entry identifying an item expressly specified by a user as a basis
4 for an item recommendation,
5 such that the contents of the data structure may be submitted to a recommendation engine to
6 generate a list of recommended items based upon the items identified by the recommendation
7 seed entries.

1 20. One or more computer memories collectively containing a
2 recommendation data structure comprising one or more recommended item entries, each
3 recommended item entry identifying an item recommended on the basis of one or more seed
4 items explicitly selected by a user,
5 such that contents of the data structure may be used to recommend items based upon the
6 selected seed items.

1 21. A method in a computing system for choosing a gift for a gift recipient,
2 comprising:
3 displaying a list of items;
4 receiving user input selecting one or more of the displayed items identified
5 with the gift recipient;
6 displaying, on the basis of the selected items, a list of one or more
7 recommended items;
8 receiving user input choosing one of the recommended items; and
9 designating the chosen recommended item as a gift for the gift recipient.

1 22. The method of claim 21, further comprising causing the item designated
2 as a gift for the gift recipient to be shipped to the gift recipient.

1 23. The method of claim 21 wherein the gift recipient is a group of people.

1 24. The method of claim 21 wherein the received user input selecting one or
2 more items is received from the gift recipient, and wherein the received user input choosing
3 one of the recommended items is received from a gift giver.

1 25. A method in a computing system for making item recommendations,
2 comprising:
3 receiving a user-specified recommendation seed base; and
4 using the user-specified recommendation seed base to produce a list of
5 recommended items.

1 26. The method of claim 25, further comprising:
2 receiving user modifications to the user-specified recommendation seed base;
3 modifying the user-specified recommendation seed base in accordance with the
4 received user modifications; and
5 using the modified user-specified recommendation seed base to produce a
6 second list of recommended items.

1 27. A method in a computing system for specifying a request for product
2 recommendations, comprising:

3 for each of a plurality of groups of one or more products, displaying
4 information describing products in the group;

5 for each of at least a portion of the plurality of product groups, displaying in
6 conjunction with the information describing products in the group a control for selecting
7 products in the group as recommendation seed;

8 when a displayed control is selected by a user, adding to a list of
9 recommendation seeds products in the group in conjunction with which the selected control
10 is displayed,

11 so that the list of recommendation seeds contains products in the groups whose controls are
12 selected by the user.

1 28. The method of claim 27, further comprising generating a product
2 recommendation based upon the list of recommendation seeds.

1 29. The method of claim 27 wherein the information displayed for a
2 distinguished one of the product groups describes a product category containing products in
3 the distinguished group.

1 30. The method of claim 27 wherein the information displayed for a
2 distinguished one of the product groups describes a product genre containing products in the
3 distinguished group.

1 31. The method of claim 27 wherein a distinguished one of the product
2 groups comprises a single product, and wherein the information displayed for the
3 distinguished product group describes the product that comprises the product group.

1 32. The method of claim 27 wherein a distinguished one of the product
2 groups comprises products that are recordings of a single artist, and wherein the information
3 displayed for the distinguished product group describes the artist.

1 33. The method of claim 27 wherein a distinguished one of the product
2 groups comprises products that are books written by a single author, and wherein the
3 information displayed for the distinguished product group describes the author.

1 34. The method of claim 27 wherein the control displayed for a
2 distinguished product group is a button that is selected by the user by clicking the button.

1 35. The method of claim 27 wherein the control displayed for a
2 distinguished product group is a draggable portion of the information describing the product
3 group, together with a destination region, and wherein the control displayed for the
4 distinguished product group is selected by the user by dragging the draggable portion of the
5 information describing the product group to the destination region.

1 36. One or more computer memories collectively containing a document
2 data structure, the document data structure having contents specifying, for each of two or
3 more products, the display of:

4 information describing the product; and

5 in conjunction with the information describing the product, a control for adding
6 the product to a list of seed products to be used to generate a product recommendation,
7 such that the document may be displayed, and such that products whose displayed controls
8 are activated by a user may be used to generate a product recommendation.

1 37. One or more generated data signals collectively conveying a document
2 data structure, the document data structure having contents specifying, for each of two or
3 more products, the display of:

4 information describing the product; and

[illegible][illegible][illegible]

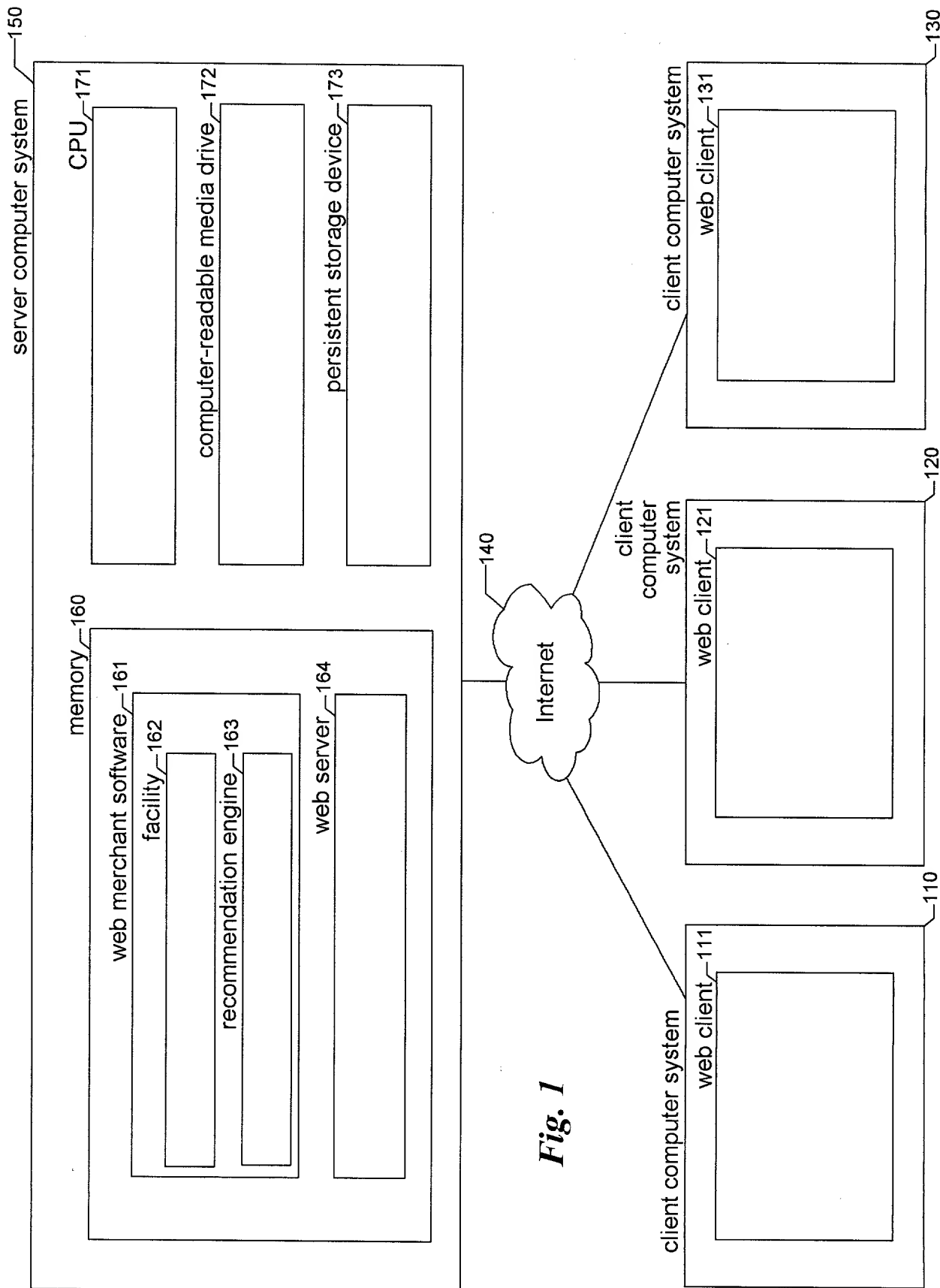


Fig. 1

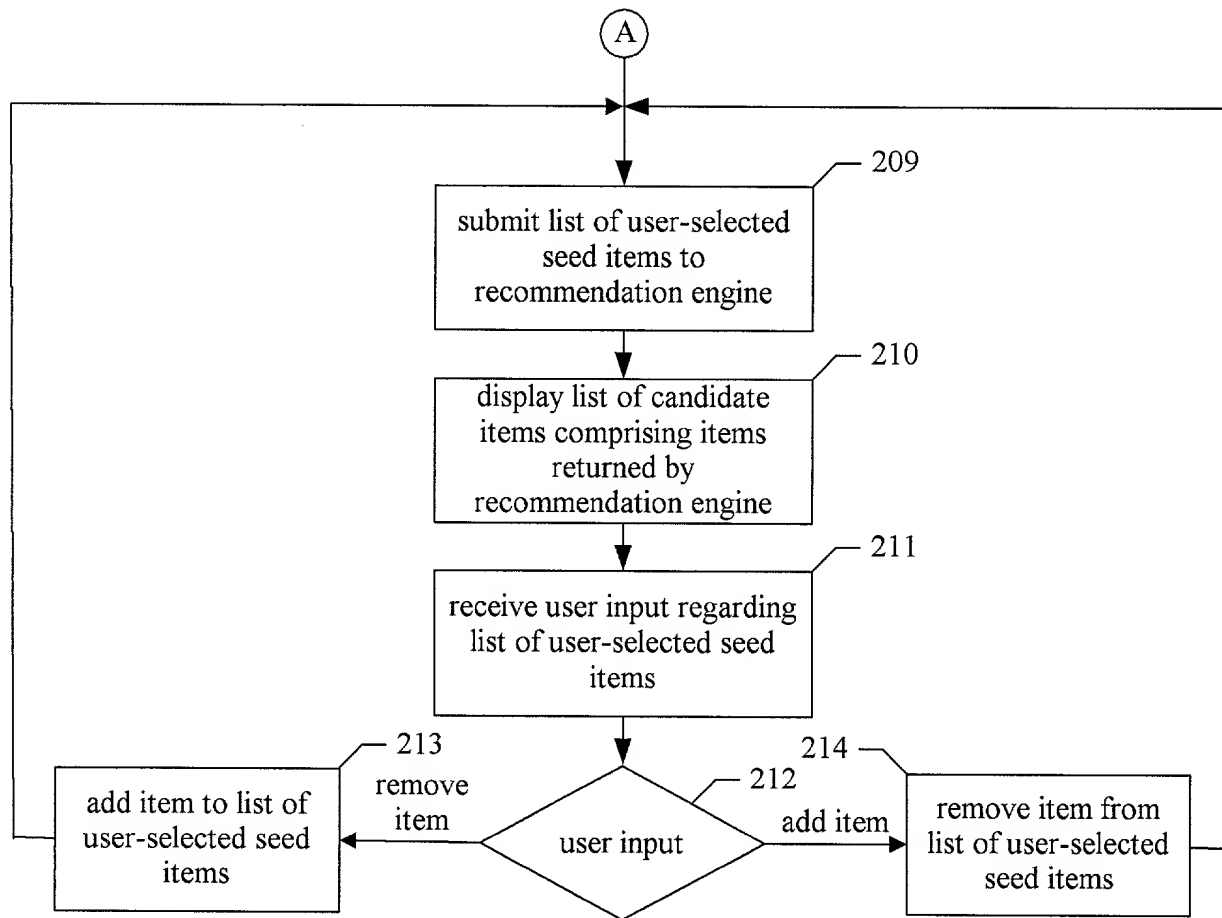
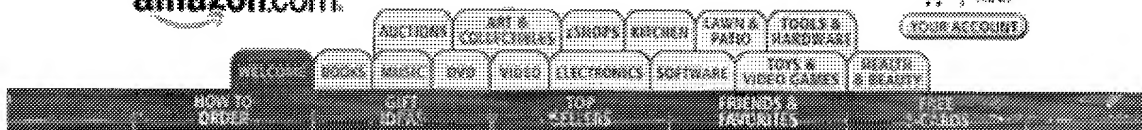


Fig. 2B

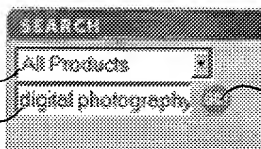
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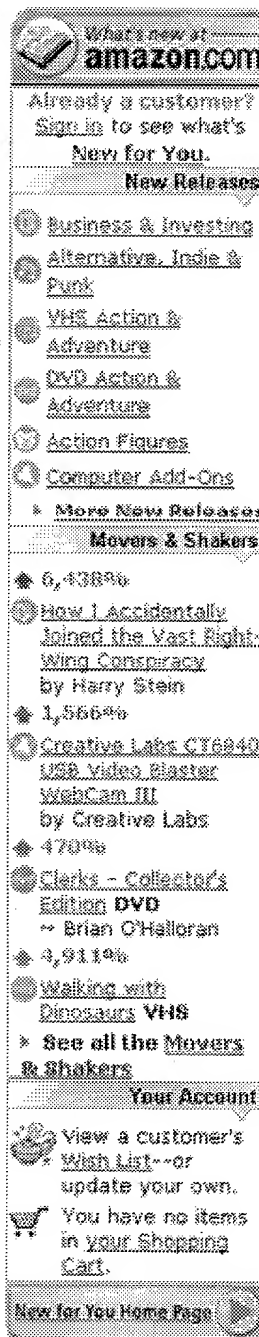
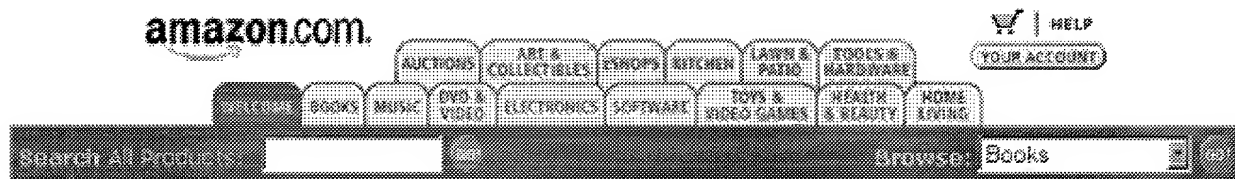


FIG. 3

00520"4TEB4960



Top Search Results from Amazon.com for digital photography

Books: See all 141 results in Books...

- 411 • [The Complete Idiot's Guide to Digital Photography \(Complete Idiot's Guide To...\) -- Steve Greenberg, Steve Greenburg; Paperback](#)
- 412 • [Digital Camera Solutions -- Gregory Georges; Paperback](#)
- 413 • [Real World Digital Photography: Industrial- Strength Techniques -- Deke McClelland, Katrin Eismann; Paperback](#)

Software: See results in Software...

- [Nickelodeon Nick Click Digital Camera -- Mattel Media; Windows 95, Windows 98](#)

Auctions: See all 7 results in Auctions...

- [Digital Photography Essentials Guide w/CD! Covers Scanning, Photoshop, more! -- Current Bid: \\$14.99 -- Ends in 5 days, 02:44:38](#)
- [#NEW# Essentials of Digital Photography #FREE SHIPPING# RETAIL \\$60.00 -- Current Bid: \\$39.23 -- Ends in 4 days, 20:36:23](#)
- [Teach Yourself Digital Photography in 14 Days *NEW* List \\$39.99 -- Current Bid: \\$16.99 -- Ends in 1 days, 07:20:20](#)

zShops: See all 9 results in zShops...

- [NEW - David Busch "Digital Photography" -- Price: \\$25.00](#)
- [MAGIC LANTERN LEARN DIGITAL PHOTOGRAPHY IN A WEEKEND -- Price: \\$24.99](#)
- [MAGIC LANTERN THE DIGITAL PHOTOGRAPHY HANDBOOK 2 -- Price: \\$24.95](#)

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FIG. 4

510 {
520 {
530 {
540 {
550 {
560 {

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Recommendations for "digital photography":

- 1. The Complete Idiot's Guide to Digital Photography (Complete Idiot's Guide To...)** [More like this](#)

Steve Greenberg, Steve Greenburg
Average Customer Rating: ★★★★★
List Price: \$24.99 **Our Price:** \$19.99 **You Save:** \$5.00 (20%)
- 2. Real World Digital Photography: Industrial- Strength Techniques** [More like this](#)

Duke McClelland, Katrin Eismann
Average Customer Rating: ★★★★★
List Price: \$11.00 **Our Price:** \$8.00 **You Save:** \$3.00 (27%)
- 3. Nickelodeon: Nick Click Digital Camera** [More like this](#)

Average Customer Rating: ★★★★★
List Price: \$49.99 **Our Price:** \$49.99
- 4. Digital Camera Solutions** [More like this](#)

Gregory Georges
Average Customer Rating: ★★★★★
List Price: \$29.95 **Our Price:** \$23.96 **You Save:** \$5.99 (20%)
- 5. The Art of Digital Photography** [More like this](#)

Tom Ang
Average Customer Rating: ★★★★★
List Price: \$29.95 **Our Price:** \$20.96 **You Save:** \$8.99 (30%)
- 6. Complete Guide to Digital Cameras** [More like this](#)

Michael D. Murie
Average Customer Rating: ★★★★★
List Price: \$39.95 **Our Price:** \$31.96 **You Save:** \$7.99 (20%)

551

FIG. 5

005220" 47E94960

amazon.com

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The Art of Digital Photography

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Silver Pixels: An Introduction to the Digital Darkroom
Tom Ang
Average Customer Rating: ★★★★★
List Price: \$27.50 Our Price: \$22.00 You Save: \$5.50 (20%)

2. 

Real World Digital Photography: Industrial- Strength Techniques
Deka McClelland, Katrin Eismann
Average Customer Rating: ★★★★★
List Price: \$44.99 Our Price: \$35.99 You Save: \$9.00 (20%)

3. 

The New Media Guide to Creative Photography : Image Capture and Printing in the Digital Age
John Carucci
Average Customer Rating: ★★★★★
List Price: \$24.95 Our Price: \$19.96 You Save: \$4.99 (20%)

4. 

Complete Guide to Digital Cameras
Michael D. Murie
Average Customer Rating: ★★★★★
List Price: \$39.95 Our Price: \$31.96 You Save: \$7.99 (20%)

5. 

The Complete Idiot's Guide to Digital Photography (Complete Idiot's Guide To...)
Steve Greenberg, Steve Greenburg
Average Customer Rating: ★★★★★
List Price: \$24.99 Our Price: \$19.99 You Save: \$5.00 (20%)

FIG. 6

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and

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All Products

1.  **Real World Digital Photography: Industrial- Strength Techniques**
Deke McClelland, Katrin Eismann
Average Customer Rating: ★★★★★
List Price: \$44.99 Our Price: \$35.99 You Save: \$9.00 (20%)

2.  **Silver Pixels: An Introduction to the Digital Darkroom**
Tom Ang
Average Customer Rating: ★★★★★
List Price: \$27.50 Our Price: \$22.00 You Save: \$5.50 (20%)

3.  **Digital Photography : Answers! Certified Tech Support (Osborne's Answers Series)**
Dave Johnson
Average Customer Rating: ★★★★★
List Price: \$24.99 Our Price: \$19.99 You Save: \$5.00 (20%)

4.  **The Complete Idiot's Guide to Digital Photography (Complete Idiot's Guide To...)**
Steve Greenberg, Steve Greenburg
Average Customer Rating: ★★★★★
List Price: \$24.99 Our Price: \$19.99 You Save: \$5.00 (20%)

5.  **Digital Camera Solutions**
Gregory Georges
Average Customer Rating: ★★★★★
List Price: \$29.95 Our Price: \$23.96 You Save: \$5.99 (20%)

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FIG. 7